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| APPLICATION NO.  | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 10/813,357   | 03/31/2004  | Donald A. Zick       | 14066.0004          | 5014             |
| 7590 01/15/2008<br>Stuart T. F. Huang                                      |             |                      | EXAMINER            |                  |
| Stepto & Johnson 1330 Connecticut Avenue, NW. BOX PTO Washington, DC 20036 |             |                      | TOLENTINO, RODERICK |                  |
|  |             |                      | ART UNIT            | PAPER NUMBER     |
|  |             |                      | 2134                |                  |
|  |             |                      |                     |                  |
|  |             |                      | MAIL DATE           | DELIVERY MODE    |
|  |             |                      | 01/15/2008          | PAPER            |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

|  | Application No.   | Applicant(s)   |  |  |  |  |
|--|---|--|--|--|--|--|
|  | 10/813,357  |  |  |  |  |  |
| Office Action Summary  | Examiner  | ZICK, DONALD A.  |  |  |  |  |
| ,  |   | Art Unit   |  |  |  |  |
| The MAILING DATE of this communication app   | Roderick Tolentino ears on the cover sheet with the c   | orrespondence address  |  |  |  |  |
| Period for Reply   |   | orrespondence address  |  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).   | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | 1. nely filed the mailing date of this communication. D (35 U.S.C. § 133). |  |  |  |  |
| Status   |   |  |  |  |  |  |
| 1) Responsive to communication(s) filed on 29 Oc   | <u>ctober 2007</u> .  |  |  |  |  |  |
| .—   | •—  |  |  |  |  |  |
| / <del></del>  | 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is  |  |  |  |  |  |
| closed in accordance with the practice under E   | x parte Quayle, 1935 C.D. 11, 45  | 53 O.G. 213.   |  |  |  |  |
| Disposition of Claims  |   |  |  |  |  |  |
| 4)⊠ Claim(s) <u>1-30</u> is/are pending in the application.  |   |  |  |  |  |  |
| 4a) Of the above claim(s) is/are withdrawn from consideration.   |   |  |  |  |  |  |
| 5) Claim(s) is/are allowed.  |   |  |  |  |  |  |
| 6)⊠ Claim(s) <u>1-30</u> is/are rejected.  |   |  |  |  |  |  |
| 7) Claim(s) is/are objected to.  | alastian sandananant  |  |  |  |  |  |
| 8) Claim(s) are subject to restriction and/or  | r election requirement.   |  |  |  |  |  |
| Application Papers   |   |  |  |  |  |  |
| 9) The specification is objected to by the Examine   | r. ·  |  |  |  |  |  |
| 10)⊠ The drawing(s) filed on <u>31 March 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.   |   |  |  |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  |   |  |  |  |  |  |
| Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex  |   |  |  |  |  |  |
| Priority under 35 U.S.C. § 119   |   |  |  |  |  |  |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:   |   |  |  |  |  |  |
| 1. Certified copies of the priority documents have been received.  |   |  |  |  |  |  |
| 2. Certified copies of the priority documents have been received in Application No   |   |  |  |  |  |  |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage  |   |  |  |  |  |  |
| application from the International Bureau (PCT Rule 17.2(a)).  |   |  |  |  |  |  |
| * See the attached detailed Office action for a list   | of the certified copies not receive   | ed.  |  |  |  |  |
| Attachment(s)  | <b></b>   | (070,440)  |  |  |  |  |
| <ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>   | 4) Interview Summary<br>Paper No(s)/Mail D  |  |  |  |  |  |
| Notice of Diatisperson's Patent Diawing Neview (170-046)   Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)   Statement   Sta |   |  |  |  |  |  |

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#### **DETAILED ACTION**

1. Claims 1 – 30 are pending.

#### Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/29/2007 has been entered.

## Response to Arguments

3. Applicant's arguments with respect to claims 1, 5, 11, 15, 21 and 25 have been considered but are most in view of the new ground(s) of rejection, as necessitated by amendment made by applicant on 10/29/2007.

### Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 1 – 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nessett et al U.S. Patent No. (6,766,453) in view of Berman et al. U.S. PG-Publication No. (2003/022116), Dujari et al. U.S. Patent No. (7,191,467) and Lintulampi U.S. Patent No. (6,377,804).

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As per claim 1, Nessett teaches generating a first secret known to the first device and a second secret known to the second device using communications between the first device and the second device over a first communication channel, said first and second secrets ostensibly being the same, (Nessett, Col. 2 Lines 58 – 67) from the first device, producing first information derived from the first secret (Nessett, Col. 2 Lines 58 - 67), from the second device, producing second information derived from the second secret: (Nessett, Col. 3 Lines 1 – 17) but fails to teach using a communication channel other than the first communication channel and a communication method other than the first communication method, comparing the first information and the second information in a manner sufficient to assure a third party that the first secret and the second secret are the same; and enabling the first and second device to use the first and second secrets upon the third party being assured that the first secret and the second secret are the same and initiating communication between the first device and the second device over a first communication channel using a first communication method by engaging a trigger at the first device and. However, in an analogous art Berman teaches using a communication channel other than the first communication channel and a communication method other than the first communication method, comparing the first

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information and the second information in a manner sufficient to assure a third party that the first secret and the second secret are the same (Berman, Paragraph 0062, communication between server and the authenticating server, which in turn authenticates the user and the server) and Dujari teaches enabling the first and second device to use the first and second secrets upon the third party being assured that the first secret and the second secret are the same (Dujari, Col. 12 Lines 58 – 62, out of band authentication) and Lintulampi teaches initiating communication between the first device and the second device over a first communication channel using a first communication method by engaging a trigger at the first device and detecting at the second device that the trigger at the first device has been engaged (Lintulampi, Col. 1 Lines 66 – 67 and Col. 2 Lines 1 – 10, device registers with second device that connects to a network).

At the time the invention was made it would have been obvious to a person of ordinary skill in the art to use, Berman's mutual authentication with secure transport and client authentication with Nesset's authenticated Diffie-Hellman key agreement protocol because it offers the advantage of secure authentication (Berman, Paragraph 0008).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use, Dujari's method of integrating third party authentication with Nesset's authenticated Diffie-Hellman key agreement protocol because it offers the advantage of being a secure form of authenticating information (Dujari, Col. 22 Lines 10 – 14).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use, Lintulampi's mobile communication system with Nesset's authenticated Diffie-Hellman key agreement protocol because it offers the advantage of providing services based on geographic locations (Lintulampi, Col. 1 Lines 4 – 11).

- 7. As per claims 2, 12 and 22, Nessett teaches the first device and the second device generate the first and second secrets using a Diffie-Hellman key exchange (Nessett, Col. 2 Lines 40 57).
- 8. As per claims 3, 13 and 23, Nessett teaches the first information is derived from a hash of the first secret; and the second information is derived from a hash of the second secret (Nessett, Col. 7 Lines 18 27).
- 9. As per claims 4, 10, 14, 20, 24 and 30, Nesset teaches the first information comprises a credential (Nessett, Col. 2 Lines 61 63).
- 10. As per claim 5, Nessett teaches communicating a commitment from the first device to the second device over a first communication channel, said commitment comprising information derived from a security value known to the first device (Nessett, Col. 6 Lines 49 65), communicating from the second device to the first device over the first communication channel, information for use in generating a first secret, communicating the security value from the first device to the second device, generating the first secret at the first device and a second secret at the second device (Nessett, Col. 2 Lines 58 67), said first and second secrets ostensibly being the same from the first device, on a communication channel other than the first communication channel, validating first verification information related to the first secret from the second device

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(Nessett, Col. 3 Lines 1 – 17) but fails to teach from the first device, on a communication channel other than the first communication channel and using a communication method other than the first communication method, validating first verification information related to the first secret, from the second device, on a communication channel other than the first communication channel and using a communication method other than the first communication method, validating second verification information related to the second secret and enabling the first and second devices to use the first and second secrets upon a third party being assured that the first secret and the second secret are the same and initiating communication between the first device and the second device over a first communication channel using a first communication method by engaging a trigger at the first device and detecting at the second device that the trigger at the first device has been engaged. However in an analogous art Berman teaches from the first device, on a communication channel other than the first communication channel and using a communication method other than the first communication method, validating first verification information related to the first secret, from the second device, on a communication channel other than the first communication channel and using a communication method other than the first communication method, validating second verification information related to the second secret (Berman, Paragraph 0062, another communication system used to verify information, communication between server and the authenticating server, which in turn authenticates the user and the server) and Dujari teaches enabling the first and second devices to use the first and second secrets upon a third party being assured that the

first secret and the second secret are the same (Dujari, Col. 12 Lines 58 – 62, out of band authentication) and Lintulampi teaches initiating communication between the first device and the second device over a first communication channel using a first communication method by engaging a trigger at the first device and detecting at the second device that the trigger at the first device has been engaged (Lintulampi, Col. 1 Lines 66 – 67 and Col. 2 Lines 1 – 10, device registers with second device that connects to a network).

At the time the invention was made it would have been obvious to a person of ordinary skill in the art to use, Berman's mutual authentication with secure transport and client authentication with Nesset's authenticated Diffie-Hellman key agreement protocol because it offers the advantage of secure authentication (Berman, Paragraph 0008).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use, Dujari's method of integrating third party authentication with Nesset's authenticated Diffie-Hellman key agreement protocol because it offers the advantage of being a secure form of authenticating information (Dujari, Col. 22 Lines 10 – 14).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use, Lintulampi's mobile communication system with Nesset's authenticated Diffie-Hellman key agreement protocol because it offers the advantage of providing services based on geographic locations (Lintulampi, Col. 1 Lines 4-11).

11. As per claims 6, 16 and 26, Nessett teaches the commitment is a hash of the security value (Nessett, Col. 7 Lines 18 – 27).

12. As per claims 7, 17 and 27, Nessett teaches the first verification information is a hash value derived from the first secret and the security value (Nessett, Col. 7 Lines 18 – 27).

- 13. As per claims 8, 18 and 28, Nessett teaches the first verification information is a hash value derived from a catenation of the first secret with the security value (Nessett, Col. 7 Lines 23 27).
- 14. As per claim 9, 19 and 29, Nessett teaches the length of the verification information is shorter than a length needed to provide a substantially identical level of security in a substantially identical method that does not utilize said commitment (Nessett, Col. 7 Lines 18 26, Hashed).
- 15. As per claims 11, 15 and 21, Nessett disclose generates a first secret that is ostensibly shared with the other device using the first communication channel (Nessett, Col. 2 Lines 58 67), but fails to teach an interface to a first communication channel associated with a first communication method, an interface to a second communication channel associated with a communication method other than the first communication method and validates on the second communication channel verification information derived from the ostensibly shared secret, and is enabled to use the ostensibly shared secret upon receipt of an indication that a third party is assured that the first secret is shared with the other device and a trigger coupled to the device, the trigger comprising a switch or a button and a registration process that initiates communication with the other device over the first communication channel upon engagement of the trigger coupled to the device. However, in an analogous art Berman teaches an interface to a

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first communication channel associated with a first communication method, an interface to a second communication channel associated with a communication method other than the first communication method (Berman, Paragraph 0062, another communication system used to verify information, communication between server and the authenticating server, which in turn authenticates the user and the server) and Dujari teaches teach validates on the second communication channel verification information derived from the ostensibly shared secret, and is enabled to use the ostensibly shared secret upon receipt of an indication that a third party is assured that the first secret is shared with the other device (Dujari, Col. 12 Lines 59 - 64) and Lintulampi a trigger coupled to the device, the trigger comprising a switch or a button (Lintulampi, Col. 1 Lines 66 – 67 and Col. 2 Lines 1 – 10, device is a telephone) and a registration process that initiates communication with the other device over the first communication channel upon engagement of the trigger coupled to the device (Lintulampi, Col. 1 Lines 66 – 67 and Col. 2 Lines 1 - 10, device registers with second device that connects to a network).

At the time the invention was made it would have been obvious to a person of ordinary skill in the art to use, Berman's mutual authentication with secure transport and client authentication with Nesset's authenticated Diffie-Hellman key agreement protocol because it offers the advantage of secure authentication (Berman, Paragraph 0008).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use, Dujari's method of integrating third party authentication with Nesset's authenticated Diffie-Hellman key agreement protocol because it offers the

advantage of being a secure form of authenticating information (Dujari, Col. 22 Lines 10 – 14).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use, Lintulampi's mobile communication system with Nesset's authenticated Diffie-Hellman key agreement protocol because it offers the advantage of providing services based on geographic locations (Lintulampi, Col. 1 Lines 4 – 11).

16. As per claim 25, Nessett teaches communicates over the first communication channel information for use in generating a shared secret, communicates the security value over the first communication channel, generates a first secret ostensibly shared with the device (Nessett, Col. 3 Lines 1 – 17) but fails to teach an interface to a first communication channel associated with a first communication method, an interface to a second communication channel associated with a communication method other than the first communication method and communicates over the second communication channel verification information related to the secret and enables the network to use the first secret upon receipt of an indication that a third party is assured that the first secret is shared with the device and detecting that the registration process has been initiated at the device by engaging a trigger coupled to the device.

However, in an analogous art Berman teaches an interface to a first communication channel associated with a first communication method, an interface to a second communication channel associated with a communication method other than the first communication method Berman, Paragraph 0062, another communication system used to verify information, communication between server and the

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authenticating server, which in turn authenticates the user and the server) and Dujari teaches communicates over the second communication channel verification information related to the secret and enables the network to use the first secret upon receipt of an indication that a third party is assured that the first secret is shared with the device (Dujari, Col. 12 Lines 59 – 64) and Lintulampi teaches and detecting that the registration process has been initiated at the device by engaging a trigger coupled to the device (Lintulampi, Col. 1 Lines 66 – 67 and Col. 2 Lines 1 – 10, device registers with second device that connects to a network).

At the time the invention was made it would have been obvious to a person of ordinary skill in the art to use, Berman's mutual authentication with secure transport and client authentication with Nesset's authenticated Diffie-Hellman key agreement protocol because it offers the advantage of secure authentication (Berman, Paragraph 0008).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use, Dujari's method of integrating third party authentication with Nesset's authenticated Diffie-Hellman key agreement protocol because it offers the advantage of being a secure form of authenticating information (Dujari, Col. 22 Lines 10 – 14).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use, Lintulampi's mobile communication system with Nesset's authenticated Diffie-Hellman key agreement protocol because it offers the advantage of providing services based on geographic locations (Lintulampi, Col. 1 Lines 4 – 11).

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Roderick Tolentino whose telephone number is (571)

272-2661. The examiner can normally be reached on Monday - Friday 9am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kambiz Zand can be reached on (571) 272-3811. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Roderick Tolentino

Examiner

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SUPERVISORY PATENT EXAMINER